



CONSTRUCTION EQUIPMENT

TRIPLE M METAL LP 392280 VOLVO L220H 2461 - DIESEL ENGINE



Sample No: VCP392082
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 392280



SAMPLE INFORMATION

Sample Number	VCP392082	VCP380077	VCP430009	VCP394871
Sample Date	08 Feb 2024	04 Dec 2023	25 Sep 2023	19 Jul 2023
Machine Hours	24447	23552	22894	22253
Oil Hours	0	0	894	2000
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



STRONGCO EQUIPMENT (CE)

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.3	12.3	---
Oxidation (PA)	%	87	84	84	---



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0	---
Nitration (PA)	%	63	59	57	---
Sulfation (PA)	%	64	62	62	---
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	2.1	<1.0	<1.0	<1.0
Silicon	ppm	4	4	4	6
Sodium	ppm	2	2	3	3
Potassium	ppm	<1	<1	0	<1

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	7	9	7	9
Copper	ppm	<1	<1	<1	2
Lead	ppm	<1	<1	<1	1
Tin	ppm	0	0	0	<1
Aluminum	ppm	4	4	3	4
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	38	38	40	39
Nickel	ppm	<1	2	<1	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1655	1566	1632	1529
Magnesium	ppm	482	476	506	506
Zinc	ppm	1026	1026	1057	1024
Phosphorus	ppm	892	854	874	911
Barium	ppm	0	<1	<1	0
Boron	ppm	30	27	24	22

Depot: VOLVO0252
Unique No: 5723988
Signed: Wes Davis
Report Date: 13 Feb 2024



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VOLVO GRAPHS

